

## CLAIMS

1. A magnetic toner comprising magnetic toner base particles each containing at least a binder resin and a 5 magnetic body, wherein:

- (i) the binder resin contains a polyester unit;
- (ii) the toner has a weight average particle size (D4) of 5.0 to 9.0  $\mu\text{m}$ ;
- 10 (iii) the toner has a true specific gravity of 1.3 to 1.7  $\text{g/cm}^3$ ;
- (iv) the toner has a saturated magnetization of 20 to 35  $\text{Am}^2/\text{kg}$  in a magnetic field of 796  $\text{kA/m}$ ;
- (v) the toner contains 60 number% or more of toner having a circularity of 0.93 or more; and
- 15 (vi) a dielectric loss tangent ( $\tan\delta$ ) of the toner at 100 kHz satisfies the following formula (1).

[Formula]

$$(\tan\delta_H - \tan\delta_L) / \tan\delta_L \leq 0.20 \quad (1)$$

[In the formula,  $\tan\delta_H$  represents a dielectric loss 20 tangent of the toner at a glass transition temperature ( $^{\circ}\text{C}$ ) + 10  $^{\circ}\text{C}$  and  $\tan\delta_L$  represents a dielectric loss tangent of the toner at the glass transition temperature ( $^{\circ}\text{C}$ ) - 10  $^{\circ}\text{C}$ .]

25 2. A magnetic toner according to claim 1, wherein the toner contains 75 number% or more of toner having a circularity of 0.93 or more.

3. A magnetic toner according to claim 1 or 2,  
wherein a dielectric loss tangent ( $\tan\delta$ ) of the toner  
at 100 kHz and 40°C is  $2 \times 10^{-3}$  to  $1 \times 10^{-2}$ .

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4. A magnetic toner according to any one of claims  
1 to 3, wherein a dielectric constant of the toner at  
100 kHz and 40°C is 15 to 40 (pF/m).

10 5. A magnetic toner according to any one of claims  
1 to 4, wherein the magnetic body has a number average  
particle size of 0.08 to 0.30  $\mu\text{m}$ .

15 6. A magnetic toner according to any one of claims  
1 to 5, further comprising 30 mass% or more of a  
component having a molecular weight of 10,000 or less  
in a molecular weight distribution of the toner.

20 7. A magnetic toner according to any one of claims  
1 to 6, wherein the binder resin contains two or more  
kinds of resins different from each other in softening  
point.

25 8. A magnetic toner according to any one of claims  
1 to 7, wherein:  
the toner is externally added with an inorganic  
fine powder; and

the inorganic fine powder contains two or more kinds of metal oxides each having a number average particle size of 100 nm or less.

5        9. A magnetic toner according to claim 8, wherein the inorganic fine powder contains at least a metal oxide (I) having a dielectric constant larger than that of the toner by 5 pF/m or more and a metal oxide (II) having a dielectric constant smaller than that of the  
10      toner by 5 pF/m or more.